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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/810,310

DATE: 04/02/2001
 TIME: 11:07:06

Input Set : A:\15280411.app
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3 <110> APPLICANT: Khleif, Samir N.
 4 Berzofsky, Jay A.
 6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR CO-STIMULATION OF
 7 IMMUNOLOGICAL RESPONSES TO PEPTIDE ANTIGENS
 9 <130> FILE REFERENCE: 15280-415100US
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/810,310
 C--> 12 <141> CURRENT FILING DATE: 2001-03-14
 14 <150> PRIOR APPLICATION NUMBER: 60/189,396
 15 <151> PRIOR FILING DATE: 2000-03-15
 17 <160> NUMBER OF SEQ ID NOS: 61
 19 <170> SOFTWARE: PatentIn Ver. 2.1
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 22 <211> LENGTH: 35
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 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: Description of Artificial Sequence: HIV PEPTIDE
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 30 <400> SEQUENCE: 1
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 34 Pro Cys Val Lys Arg Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr
 35 20 25 30
 37 Ile Gly Lys
 38 35
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71 Arg Asp Asn Trp Arg Ser Glu Leu Tyr Lys Tyr Lys Val Val Lys Ile
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74 Glu Pro Leu Gly Val Ala Pro Thr Arg Ile Gln Arg Gly Pro Gly Arg
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77 Ala Phe Val Thr Ile Gly Lys
78           35
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95           20           25           30
97 Arg Arg Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr Ile Gly Lys
98           35           40           45
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118           20           25           30
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121           35           40
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150 <400> SEQUENCE: 7
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168 Glu Gln Met His Glu Asp Ile Ile Ser Leu Trp Asp Gln Ser Leu Lys
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172           20           25           30
174 Thr Lys Asn
175           35
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188 Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
189   1             5             10             15
191 Pro Pro Ile Ser Gly Gln Ile Arg Arg Ile His Ile Gly Pro Gly Arg
192           20           25           30
194 Ala Phe Tyr Thr Thr Lys Asn
195           35
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209   1             5             10             15
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212           20           25           30

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229   1           5           10           15
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232           20           25           30
234 Arg Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn
235   35           40           45
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248     ANTIGEN
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254 Ile Pro Arg Arg Ile Arg Gln Gly Leu Glu Arg Arg Ile His Ile Gly
255           20           25           30
257 Pro Gly Arg Ala Phe Tyr Thr Thr Lys Ile Asn
258   35           40
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268     ANTIGEN
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271 Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg Arg
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275           20           25           30
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291 Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn
292           20           25           30
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302   ANTIGEN
304 <400> SEQUENCE: 15
305 Arg Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr Ile Gly Lys
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314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: HIV PEPTIDE
316   ANTIGEN
318 <400> SEQUENCE: 16
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320   1           5           10
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333 Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr
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338 <211> LENGTH: 10
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347 Ile Gly Pro Gly Arg Ala Phe Tyr Ala Thr
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354 <213> ORGANISM: Artificial Sequence

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VERIFICATION SUMMARY DATE: 04/02/2001
PATENT APPLICATION: US/09/810,310 TIME: 11:07:07

Input Set : A:\15280411.app
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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date